



Service Repair Manual

Models

637G Wheel Tractor

Product: WHEEL TRACTOR

Model: 637G WHEEL TRACTOR CEH

Configuration: 637G Wheel Tractor CEH00001-UP (MACHINE) POWERED BY 3408E Engine

Disassembly and Assembly

637G Wheel Tractor-Scraper Wheel Tractor Power Train

Media Number -REN5730-00

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i02568748

Transmission Planetary - Disassemble

SMCS - 3030-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	FT-0833	Clamp	2
C	2P-8312	Retaining Ring Pliers	1
D	FT-1335	Transmission Fixture	1
E	1P-0520	Driver Group	1
F	138-7575	Link Bracket	2
G	138-7573	Link Bracket	2
H	-	Forcing Bolt 3/8 - 16 NC by 3 inch	2

Start By:

- A. Separate the transfer gears from the transmission. Refer to Disassembly and Assembly , "Torque Converter, Transmission and Transfer Gear - Separate".
- B. Remove the transmission hydraulic control valve. Refer to Disassembly and Assembly , "Transmission Hydraulic Control Valve - Remove".

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

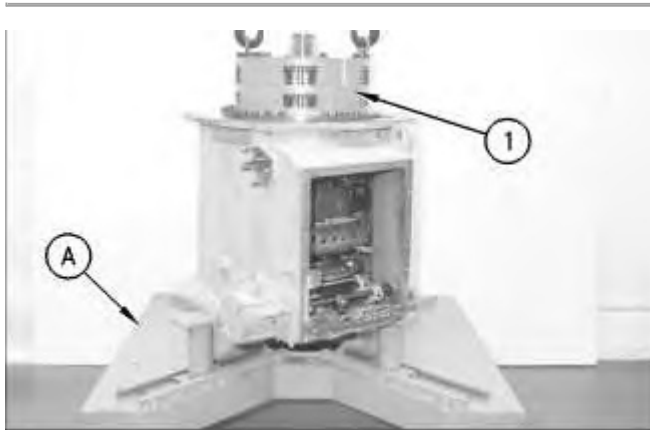


Illustration 1

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1. Install Tooling (F) and a suitable lifting device onto transmission assembly (1) . Position transmission assembly (1) onto Tooling (A) . The transmission assembly weighs approximately 703 kg (1550 lb).

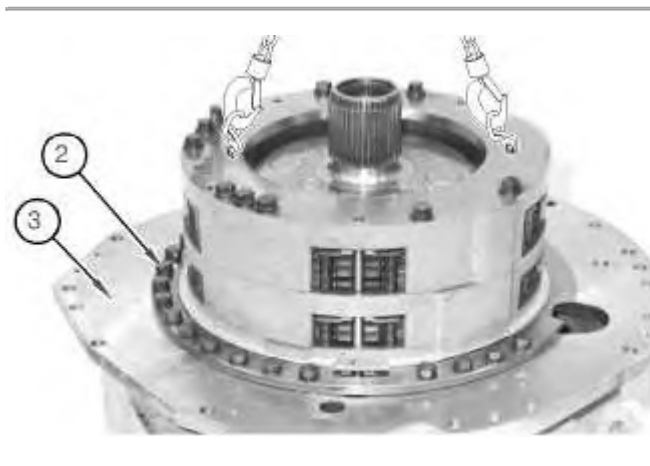


Illustration 2

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2. Remove bolts (2) . Remove the transmission assembly from transmission housing (3) . Position the transmission assembly onto suitable blocks.

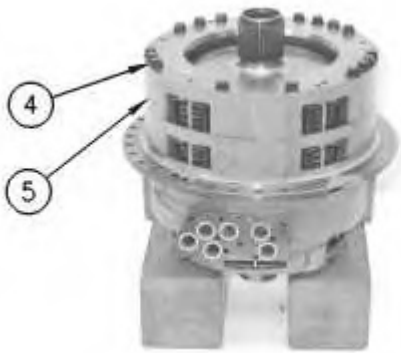


Illustration 3

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3. Remove bolts (4) from clutch housing (5) .

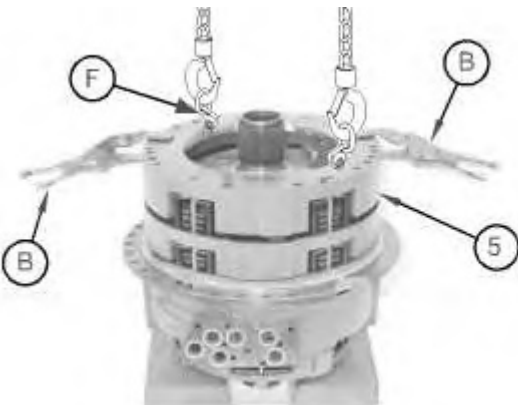


Illustration 4

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 **WARNING**

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

4. Use Tooling (B) in order to hold the piston into clutch housing (5) . Install Tooling (F) and a suitable lifting device onto clutch housing (5) . Remove clutch housing (5) from the transmission assembly. The weight of clutch housing (5) is approximately 27 kg (60 lb).

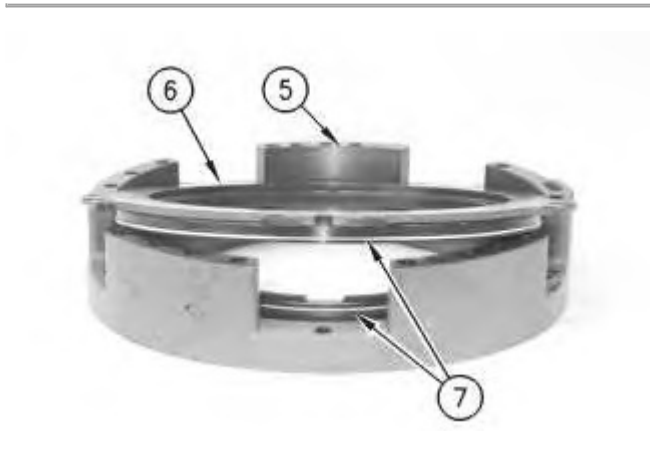


Illustration 5

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5. Remove piston (6) from clutch housing (5) . Remove a seal ring (7) from piston (6) and from clutch housing (5) .

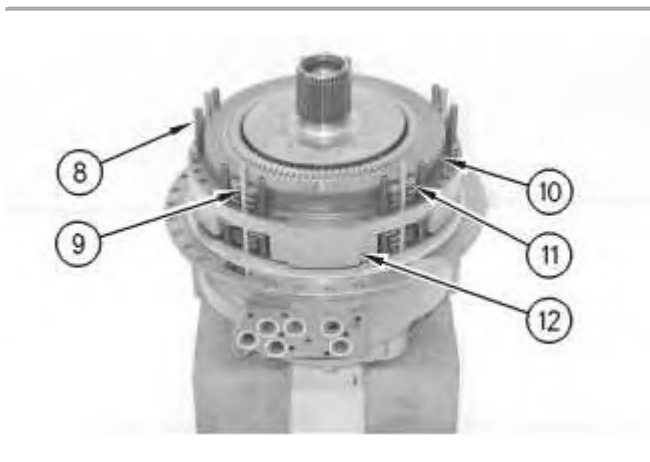


Illustration 6

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Note: Friction discs and clutch plates that are removed from each clutch housing should be kept with the correct clutch housing. Mixing the clutch plates and friction discs may cause improper operation of the transmission or damage to the transmission.

6. Remove springs (8) , dowels (9) , friction discs (10) and clutch plates (11) from clutch housing (12) .
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